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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/020,703	11/30/2001	John G. N. Henderson	(DMSL)HA-86(HAL-ID 167)	9576	
26479	7590 12/22/2004		EXAM	EXAMINER	
STRAUB &	POKOTYLO		PHAN, DA	O LINDA	
BLDG. B, 21			ART UNIT	PAPER NUMBER	
•	LLS, NJ 07724		3662 .		
			DATE MAILED: 12/22/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	//				
			1/s				
Office Action Cummans	10/020,703	HENDERSON ET AL.	· · · · · · · · · · · · · · · · · · ·				
Office Action Summary	Examiner	Art Unit					
	Dao L. Phan	3662	·				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of th d will apply and will expire SIX (6) MC ute. cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication BBANDONED (35 U.S.C. § 133).	on.				
Status							
1) Responsive to communication(s) filed on <u>02</u>	November 2004.						
·— ·	nis action is non-final.						
3) Since this application is in condition for allow							
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims			•				
4)⊠ Claim(s) 1-53 is/are pending in the application	on.						
4a) Of the above claim(s) 42-53 is/are withdr	4a) Of the above claim(s) <u>42-53</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-41</u> is/are rejected.	☑ Claim(s) <u>1-41</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	I/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Exami	ner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	ne drawing(s) be held in abey	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	•	•· <i>,</i> ,	(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a lie	ents have been received. ents have been received in rionty documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage					
		ı					
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		o(s)/Mail Date Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other: _	* * * * * * * * * * * * * * * * * * * *					

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1. Election/Restriction requirement filed on 11/2/04 has been entered in this application.

2. Claims 12-24, 29-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claim 12, line 3, and claim 21, line 3, "a received broadcast signal processing circuit and for generating" is unclear.

As to claim 29, lines 3-4, "a plurality of signal components... including antenna polarization information" is indefinite because this is read as a single means claim.

Claim 13-20, 22-24, 30-34 depend from indefinite antecedent claims.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Williams (Pat. No. 3,842,417) or Tang et al (Pat. No. 4,045,800) or Harbin et al (Pat. No. 5,701,583).

Williams teaches an antenna apparatus including a digital communications channel for receiving (fig. 1), control circuitry 28, coupled to the digital communications

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channel, the control circuitry including a direction control device for generating, a controllable antenna element assembly having a steerable antenna pattern (fig. 3, and 9).

Tang et al teach an antenna apparatus including a digital communications channel for receiving (fig. 1), control circuitry 44, coupled to the digital communications channel, the control circuitry including a direction control device for generating, a controllable antenna element assembly having a steerable antenna pattern (fig. 2, and 8).

Harbin et al teach an antenna apparatus including a digital communications channel for receiving 28, control circuitry 34, coupled to the digital communications channel, the control circuitry including a direction control device for generating, a controllable antenna element assembly having a steerable antenna pattern (65; fig. 6).

5. Claims 12-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Henderson (Pat. No. 4,349,840) or Ma et al (Pat. No. 4,801,940).

Henderson teaches a receiver apparatus including a tuner 24 for receiving a broadcast signal, a received broadcast signal processing circuit 48 for generating at least one signal measurement value, an antenna controller 82 for generating a digital antenna control signal, and a communications channel (fig. 1) for outputting the digital antenna control signal.

Ma et al teach a receiver apparatus including a tuner 12 for receiving a broadcast signal, a received broadcast signal processing circuit 14 for generating at least one signal measurement value, an antenna controller 214 for generating a digital antenna

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control signal, and a communications channel (fig. 1) for outputting the digital antenna control signal.

6. Claims 12-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Ikeda et al (US 2001/0055948).

Ikeda et al teach a receiver apparatus including a tuner 2 for receiving a broadcast signal, a received broadcast signal processing circuit 5 for generating at least one signal measurement value, an antenna controller (fig. 1, Control Portion) for generating a digital antenna control signal, and a communications channel (fig. 1) for outputting the digital antenna control signal.

7. Claims 21-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Verma et al (Pat. No. 4,906,506).

Verma et al teach a receiver apparatus including a tuner (col 2, lines 19-24) for receiving a broadcast signal, a received broadcast signal processing circuit (fig. 2) for generating at least one signal measurement value, an antenna controller (15; col 1 lines 41-51; col 2, lines 24-31) coupled to the broadcast signal processing circuit for generating a digital antenna control signals, and a communications channel (fig. 2) for outputting the digital antenna control signal.

8. Claims 29-41 are rejected under 35 U.S.C. 102(e) as being anticipated by Abramov et al (Pat. No. 6,486,832).

Abramov et al teach a multi-bit antenna control signal and a method of controlling an antenna including generating (32; fig. 4) at least one digital control signal, and transmitting (col 1, lines 60+) the digital control signal to an antenna.

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9. Claims 25-28 are allowed.

10. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dao L. Phan whose telephone number is (703)306-

4167. The examiner can normally be reached on M-F 9:00-5:30.

Business Center (EBC) at 866-217-9197 (toll-free).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarcza Thomas can be reached on (703)306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

DAO PHAN PATENT EXAMINER